INDEX FOR VOLUME XLII, 1930

Compiled by R. D. Hissong

Ainslie, C. N., The economic importance of birds as insect predators, 193-197
Alexander, F. M., Notes on the birds of south central Kansas, 241-244
Baerg, W. J., Bird migration records in northwest Arkansas, 45-50
——The Starling in northwestern Arkansas, 66
Ball, William Howard, Concerning a young Snowy Egret in Maryland, 133
Bird, R. D., The Starling in Oklahoma, 66-67
Breckinridge, W. J., Two notable Minnesota duck records, 59
Brooks, Maurice G., Notes on the birds of Cranberry Glades, Pocahontas County, West Virginia, 245-252
Burns, Frank L., A letter from Robert Ridgway, 109-110
Cahn, Alvin R., Additions to the Easter birds of Little Egypt, 214-215
Campbell, Louis W., Common Terns nesting near Toledo, Ohio, 107-108
——Unusual nesting sites of the Prothonotary Warbler, 292
Christy, Bayard H., The Evening Grosbeak nesting in northern Michigan, 217
Clarke, Mrs. J. Frederick, A Robin roost close to a home, 291
Clay, Marcia B, Some bird notes from Trumbull County, Ohio, 63
Coffin, Mrs. Lucy Baxter, American Egret and Little Blue Heron in the Lake Michigan dunes of Indiana, 291
Cookman, Alfred, Birds noted on a visit to Santa Cruz Island, California, 64-65
Eastwood, Sidney K., The Northern Pileated Woodpecker in Westmoreland County, Pennsylvania, 54
Editorial, 51-53, 131-132, 211, 286-288
Eifrig, G., Seasonal changes in a bird habitat in Texas, 239-240
Errington, Paul L., Territory disputes of three pairs of Marsh Hawks, 237-239
——Behavior of Bob-whites upon the approach of a Marsh Hawk, 294
Fargo, William G., Canada Geese review a parade of ducks, 137-138
Fitzpatrick, F. L., Recent bird records from northeastern Colorado and their significance in connection with geographical distribution, 122-130
Force, Edith R. and W. H. Koons, Some new birds for Oklahoma from Okmulgee and Tulsa Counties, 118-121
Ganier, Albert F., Breeding of the Least Tern on the Mississippi River, 103-107
Gilmore, Mr. and Mrs. A. E., The Starling in Tulsa County, Oklahoma, 66
——The Red-shafted Flicker in Tulsa County, Oklahoma, 133
Green, Wyman R., Chimney Swift banding operations at Chattanooga, 110-118
Hagar, Mrs. Jack, An odd nesting site of the Bluebird, 290
Hoffman, E. C., The relation between the Blue Jay and the pin oak, 55-56
——A Phoebe nest in an abandoned house, 134
Holcombe, C. E., Notes on the nesting habits of Bluebirds, 215-217
Holland, H. M., Snowy Egrets in Des Moines County, Iowa, 289
Holt, Ernest G., Nesting of the Sandhill Crane in Florida, 163-183
Jones, Lynds, The sequence of the molt, 97-102
Kemsies, Emerson, Birds of the Yellowstone Park with some recent additions, 198-210
Lambert, Earl L., The Starling in Hancock County, Illinois, 67
——A Burrowing Owl record for Hancock County, Illinois, 213
——Nesting of the Starling in Hancock County, Illinois, 213
Larson, Adrian, Summer Occurrences of the Harris's Sparrow in South Dakota, 54
——The Pine Grosbeak in South Dakota, 213
Leopold, Aldo, The decline of the Jacksnipe in southern Wisconsin, 183-190
Lewis, Walter E., Water birds in a dry land, 36-44
Lowery, George, The Starling in northern Louisiana, 213
Lyon, W. I., Brewer's Blackbird nesting in Illinois, 214
McNiel, Charles A., The Starling in Pettis County, Missouri, 66

Malcomson, R. O, The Lark Sparrow nesting in Schuyler County, Illinois, 135
Manuel, C. G., Larine Succession on Lone Tree Island, 236
Miller, Lyle, The Chestnut-sided and other warblers nesting in Geauga County, Ohio, 56-57
Moseley, E. L., Fluctuation of bird life with change of water level, 191-193
——Abundance of the Golden Plover in Ohio in 1930, 202
Mounts, Beryl T., Some unusual spring records for Bibb County, Georgia, 61-62
Nauman, E. D., The Mockingbird breeds in Iowa, 57-59
——Some odd nesting sites of the House Wren, 62-63
——Intimate nestings of the Brown Thrasher, 137
——The nesting habits of the Baltimore Oriole, 295-296
Neff, Johnson A., The Starling in the Missouri Ozarks, 66
Nice, Margaret M., Observations at a nest of Myrtle Warblers, 60-61
——Experiences with Song Sparrows in 1929, 219-220
Nicholson, Donald J., Habits of the Florida Red-shouldered Hawk, 32-35
——Some random bird notes from Florida, 218-219
Over, W. H. and G. M. Clement, Nesting of the White-winged Junco in the Black Hills of South Dakota, 28-31
Perkins, Samuel Elliott, III, The mating of the Brown Thrasher, 221
——Notes on the Wild Turkey in Indiana, 233-235
Pershing, Henry A., Banditry among birds, 55
Pickens, A. L. Unsolved problems concerning upper South Carolina birds, 54
Pierce, Fred J., Birds of Buchanan County, Iowa, 253-285
Proceedings of the Wilson Ornithological Club, 68-80
Proceedings of the 1930 joint meeting of the N. O. U. and I. O. U. at Omaha, 224
Rapp, F. W., The Starling in Kalamazoo County, Michigan, 67
Roads, Katie M., An unusual number of wintering birds at Hillsboro, Ohio, 211
Sanborn, Herbert C., Albinism in the Red-tailed Hawk, 220
Schorger, A. W., Lesser Snow Geese at Fox Lake, Wisconsin, 213
Sherman, Althea R., The old ornithology and the new, 3-10
Spiker, Chas. J., A Starling killed by lightning, 289
Stacker, Margaret, The Cardinal's love for home, 293
Stevens, O. A., Migration records for North Dakota, 215
——A partial albino junco, 289
——Peripheral lag in migration, 290
Swenk, Myron H., The Crown Sparrows (Zonotrichia) of the Middle West, 81-95
——The Rose-breasted and Black-headed Grosbeaks hybridize, 289
Sutton, George Miksch, The nesting wrens of Brooke County, West Virginia, 10-17
——Four eggs in the nest of a Mourning Dove, 54
Taber, William Brewster, Jr., The fall migration of Mourning Doves, 17-28
Van Tyne, Josselyn, Status of Gambel's Sparrow in Michigan, 95-97
——The Barro Colorado Laboratory as a station for ornithological research, 225-232
Walkinshaw, Lawrence H., A young Pied-billed Grebe on land, 56
——Crossbills in Michigan, 134
——Upland Plover in Calhoun County, Michigan, 290
Watterson, William H., The fall migration at Cleveland Public Square, 135-137
Willis, Warren J., Early Robins on Long Island, 133
Wing, Leonard W., George S., Harold F., and Maurice, A nesting census in Jackson County, Michigan, 63-64
Youngworth, William, Prairie birds seek the shade, 55
——Breeding of the Least Tern in Iowa, 102-103
——The Olive-sided Flycatcher in Iowa, 133
——A flicker migration in Iowa, 213-214

Acanthis linaria, 207, 275
Accipiter cooperi, 126, 204, 246, 268
velox, 125, 204, 215, 246, 267
Actitis macularia, 125, 203, 246, 264
Aechmophorus occidentalis, 65, 201
Aeronautes melanoleucus, 205
Agelaius phoeniceus fortis, 206
p. phoeniceus, 127, 249, 274
Aix sponsa, 202, 259
Ammodramus savannarum australis, 120, 276
s. bimaculatus, 128, 199, 207
Ammospiza nelsoni, 299
Anas platyrhynchos, 38, 123, 201, 215, 258
rubripes, 258
Anhinga anhinga, 215, 240
Anser albifrons gambeli, 40
Antbird, 230
Anthus rubescens, 282
spraguei, 199, 209
Antrostomus v. vociferus, 247, 271
Aphelocomo insularis, 65
Aquila chrysaetos, 204, 268
Archaepteryx, 297
Archaeornis, 297
Archibuteo ferrugineus, 204, 268
lagopus sancti-johannis, 204, 215, 268
Archilochus colubris, 248, 272
Ardea h. herodias, 41, 65, 119, 124, 260
h. treganzai, 202
h. wardi, 119
Arenaria interpres morinella, 203
Asio flammeus, 204, 270
otus wilsonianus, 204
wilsonianus, 126, 269
Astragalinus p. psaltria, 128
t. tristis, 249, 275
t. pallidus, 207
Astur atricapillus striatulus, 204
Asyndesmus lewisi, 126, 205
Avocet, 42, 125, 242
American, 203
Baeolophus bicolor, 252, 283
Baldpate, 39, 59, 137, 201
Banding Birds, 18-25, 78, 79, 108-118, 144, 298
Bartramia longicauda, 43, 264, 290
Bittern, American, 41, 46, 64, 124, 193, 215, 242, 260
Least, 222, 260
Blackbird, 197, 244, 291
Brewer's, 128, 200, 206, 214
Redwinged, 50, 55, 61, 64, 127, 164, 244, 249, 274
Rio Grande Red-wing, 240
Rusty, 47, 214, 244, 274
Thick-billed Red-wing, 206
Yellow-headed, 127, 206, 244, 274
Bluebill, 241
Bluebird, 50, 64, 214, 215-217, 244, 252, 285, 290
Mountain, 77, 130, 210
Western, 71, 210
Bobolink, 46, 61, 64, 78, 97, 206, 249, 273
Bob-white, 64, 125, 130, 144, 242, 246, 265, 294
Bombycilla cedrorum, 209, 250, 279
garrula, 209, 279
Bonasa umbellus umbelloides, 204
u. umbellus, 246, 266
Botaurus lentiginosus, 41, 124, 215, 260
Brant, Black, 41
Branta c. canadensis, 40, 124, 202, 215, 259
c. hutchinsi, 202
nigricans, 41
Bubo virginianus occidentalis, 205
v. virginianus, 247, 270
Bufflehead, 40, 202, 241, 259
Bunting, Indigo, 48, 50, 64, 244, 250, 278
Lark, 55, 129, 208
Lazuli, 128, 208
Painted, 244
Snow, 207, 276
Bush-tit, Coast, 66
Buteo b. borealis, 220, 246, 268
b. calurus, 65, 126, 204
b. krideri, 119, 126
l. lineatus, 246, 268
p. platypterus, 247, 268
swainsoni, 204, 268
Butorides virescens, 261
Buzzard, Turkey, 231
Calamospiza melanocorys, 55, 129, 208
Calcarius lapponicus alascensis, 207
l. lapponicus, 276
ornatus, 55
Canachites franklini, 203
Canvasback, 39, 123, 137, 202, 241, 256, 259
Capella gallinago delicata, 215
Caracara, Audubon's, 35, 164
Cardinal, 63, 70, 71, 134, 164, 244, 249, 278, 291, 293
Cardinalis cardinalis, 63, 249, 278
Carpodacus cassini, 207
mexicanus clementis, 65
m. frontalis, 128
p. purpureus, 249, 275
Casmerodius egretta, 291
Cat Trap, 143
Catbird, 7, 49, 64, 97, 129, 136, 209, 244, 252, 282
Cathartes aura septentrionalis, 125, 246
Catoptrophorus semipalmatus inornatus, 43, 125, 203, 264
Centrocercus urophasianus, 204
Centurus carolinus, 247, 271

Cerchneis sparveria phalaena, 204
s. sparveria, 126, 247, 269
Certhia familiaris americana, 283
f. montana, 210
Ceryle a. alcyon, 65, 126, 205, 247, 271
Chaetura pelagica, 110, 247, 272
Charadrius nivosus, 44
semipalmatus, 265
Charitonetta albeola, 40, 202, 259
Chat, Yellow-breasted, 49, 57, 77, 251
Chaulelasmus streperus, 123, 201
Chen h. hyperboreus, 40, 202, 213, 259
Chickadee, 71, 134, 144, 215, 252, 283
Black-capped, 64, 244
Carolina, 252
Hudsonian, 218
Long-tailed, 129, 210
Mountain, 210
Chicken, Prairie, 64, 242, 266, 285
Chlidonias nigra surinamensis, 37, 123, 201, 257
Chondestes grammacus, 135, 276
g. strigatus, 65, 128, 207
Chordeiles virginianus henryi, 126
v. hesperis, 205
v. virginianus, 247, 272
Chuck-will's-widow, 46
Cinclus mexicanus unicolor, 129, 209
Circus hudsonius, 125, 204, 246, 267
Cistothorus stellaris, 283
Coccyzus a. americanus, 126, 247, 271
erythrophthalmus, 271
Cockatoo, 17
Colaptes auratus luteus, 213, 247, 271
cafer collaris, 65, 126, 133, 205
Colinus v. virginianus, 125, 246, 265
Columba f. fasciata, 125
Colymbus auritus, 201, 256
holboelli, 256
nigricollis californicus, 37, 65, 123, 201
Compsothlypis americana pusilla, 280
Coot, American, 42, 59, 76, 124, 164, 191, 192, 203, 215, 240, 256, 262
Cormorant, 79
Brandt's, 65
Double-crested, 76, 140, 215, 257
Farallon, 65
Mexican, 240
White-crested, 71
Corvus brachyrhynchos, 249, 273
b. hesperis, 127, 206
corax principalis, 248
c. sinuatus, 65, 206
Coturnicops noveboracensis, 262
Cowbirds, 7, 46, 64, 71, 97, 101, 127, 206, 244, 249, 273, 296
Crane, Little Brown, 203
Sandhill, 41, 124, 163-183, 203, 242, 261
Whooping, 41, 198, 203
Creciscus jamaicensis, 42, 62
Creeper, Brown, 7, 49, 134, 283
Rocky Mountain, 210
Crossbill, American, 207, 275
Red, 133
White-winged, 134, 207
Crow, 64, 71, 243, 244, 249, 273
Canada, 71
Fish, 164
Florida, 35
Western, 127, 130, 206
Cuckoo, 6
Black-billed, 46, 64, 271
Yellow-billed, 46, 64, 126, 130, 239, 247, 271
Curlew, 242
Hudsonian, 246
Long-billed, 43, 125, 203
Cyanocephalus cyanocephalus, 127, 206
Cyanocitta c. cristata, 55, 127, 214, 248, 273
stelleri annectens, 206
s. diademata, 127
Cygnus columbianus, 260
Dafila acuta tzitzihoa, 39, 123, 202, 259
Dendragapus obscurus richardsoni, 203
Dendrocygna fulva, 59
Dendroica a. aestiva, 56, 129, 209, 250, 280
auduboni, 129, 209
caerulescens, 280
caerulescens cairnsi, 250
castanea, 281
cerulea, 56, 280
coronata, 60, 280
c. hooveri, 209
dominica albilora, 215
fusca, 251, 281
magnolia, 120, 251, 280
p. palmarum, 281
pensylvanica, 56, 251, 281
striata, 281
tigrina, 280
townsendi, 209
v. vigorsi, 281
virens, 251, 281
Dickcissel, 4, 48, 244, 278
Dipper, 129, 209
Dolichonyx oryzivorus, 99, 206, 249, 273
Dove, 71
Cassin, 231
Mourning, 17-28, 50, 53, 54, 64, 80, 97, 102, 214, 242, 267
Western Mourning, 55, 65, 125, 204

Dowitcher, Long-billed, 42
Dryobates pubescens homorus, 205
p. medianus, 247, 271
villosus monticola, 205
v. villosus, 247, 271
Duck, 234, 285
Black, 137, 193, 258
Florida, 164
Fulvous Tree, 59
Lesser Scaup, 39, 59, 76, 124, 164, 202, 218, 219
Pacific Harlequin, 202
Red-legged Black, 193
Ruddy, 202, 240
Scaup, 137, 202, 240, 256, 259
Wood, 71, 105, 193, 202, 259
Dumetella carolinensis, 129, 209, 252, 282
Eagle, 36, 242
Bald, 65, 164, 204, 268
Golden, 71, 79, 204, 242, 268
Harpy, 71
Economic value of birds, 37, 39, 80, 193-197, 244
Ectopistes migratorius, 267
Egret, 50
American, 193, 291
Snowy, 79, 133, 289
Egretta c. candidissima, 133, 289
Eider, King, 71
Pacific, 71
Elanoides forficatus, 267
Empidonax d. difficilis, 65, 206
flaviventris, 273
hammondi, 127, 206
minimus, 87, 248, 273
trailli alnorum, 248
t. trailli, 87, 206, 273
virescens, 248
wrighti, 206
Ereunetes pusillus, 43, 264
Erismatura jamaicensis, 202
Euphagus carolinus, 214, 274
cyanocephalus, 128, 206, 214
Falco columbarius, 204, 269
mexicanus, 126, 204
peregrinus anatum, 204
Falcon, Prairie, 71, 126, 204, 243
Finch, Black Rosy, 207
Cassin's Purple, 207
Gray-crowned Rosy, 207
Guadalupe House, 70
Hepburn's Rosy, 207
House, 128, 130
Purple, 47, 50, 249, 275
San Clemente House, 65
Flicker, 164, 243
Northern, 64, 213, 247, 271
Red-shafted, 65, 126, 133, 205
Florida caerulea, 41, 133, 291
Flycatcher, 229, 249
Acadian, 46, 248
Alder, 248
Ash-throated, 65
Crested, 46, 64, 97, 248, 272
Hammond's, 127, 206
Least, 46, 64, 87, 136, 248, 273
Olive-sided, 133, 206, 248, 272
Scissor-tailed, 239, 243
Traill's, 87, 206, 273
Tyrant, 230
Western, 65, 206
Wright's, 206
Yellow-bellied, 273
Fulica americana, 42, 124, 203, 215, 262
Gadwall, 123, 193, 201
Gallinago delicata, 42, 63, 125, 183-190, 203, 215, 263
Gallinula chloropus cachinnans, 262
Gallinule, 192, 230
Florida, 240, 262
Purple, 61, 230, 240
Gavia immer, 201, 257
pacifica, 65
stellata, 199, 201
Geothlypis t. trichas, 57, 251, 281
t. occidentalis, 209
Glaucidium gnoma pinicola, 205
Glaucionetta clangula americana, 39, 202
islandica, 202
Gnatcatcher, Blue-gray, 49, 50, 244, 252, 284
Godwit, Marbled, 125, 199, 203
Golden-eye, 76, 241
American, 39, 202
Barrow's, 202
Goldfinch, 50, 64, 249, 275
American, 244
Arkansas, 128
Pale, 207
Goose, 285
Canada, 40, 124, 137, 202, 215, 241, 259
Grey, 71
Hutchins's, 202
Lesser Snow, 40, 76, 202, 213
Snow, 241
White-fronted, 40
Goshawk, Western, 204
Grackle, 55
Boat-tailed, 164
Bronzed, 7, 50, 64, 97-100, 128, 130, 215, 244, 249,275
Great-tailed, 240

Grebe, 71
Eared, 37, 65, 79, 123, 201
Holboell's, 79, 256
Horned, 71, 201, 241, 256
Mexican, 240
Pied-billed, 37, 56, 79, 123, 164, 193, 201, 240, 241, 256
Western, 65, 79, 201
Grosbeak, Black-headed, 71, 128, 208, 289
Blue, 47, 244
Evening, 217, 270, 275
Pine, 213
Rocky Mountain Pine, 207
Rose-breasted, 5, 47, 64, 144, 244, 249, 250, 278, 289
Western Evening, 207
Grouse, Columbian Sharp-tailed, 204
Franklin's, 203
Gray Ruffed, 97, 102, 204
Richardson's, 203
Ruffed, 60, 134, 246, 266
Grus americana, 41, 124, 203
canadensis, 203
mexicana, 41, 163-183, 203, 261
Gull, 79
Bonaparte's, 123, 201, 218, 236
California, 199, 201, 300
Franklin's, 37, 241, 257
Heermann's, 65
Herring, 37, 136, 218, 236, 241
Laughing, 218, 240
Ring-billed, 37, 123, 201, 218
Western, 65
Haematopus bachmani, 65
Haliaeetus leucocephalus, 65, 204, 268
Hawk, 143, 249
Broad-winged, 247, 268
Cooper's, 126, 204, 243, 246, 268
Desert Sparrow, 204
Duck, 71, 76, 204
Ferruginous Rough-leg, 204, 268
Fish, 204
Florida Red-shouldered, 32-35
Krider's, 119, 126
Marsh, 64, 125, 192, 204, 237-239, 243, 246, 267, 294
Pigeon, 204, 269
Red-shouldered, 32, 61, 64, 164, 222, 246, 268
Red-tailed, 220, 246, 268
Rough-legged, 204, 215, 243, 268
Sharp-shinned, 46, 125, 204, 215, 243, 246, 267
Sparrow, 9, 10, 126, 136, 164, 243, 247, 269
Swainson's, 204, 243, 268
Western Red-tailed, 65, 126, 204
Hedymeles ludovicianus, 250, 278, 289
melanocephalus, 128, 208, 289
Helmitheros vermivorus, 250
Hen, Heath, 80, 131
Sage, 204
Heron, 164, 230
Black-crowned Night, 41, 80, 124, 202, 215, 240, 242, 261
Great Blue, 41, 46, 50, 65, 105, 119, 124, 193, 202, 242, 260, 291
Great White, 71, 133
Green, 46, 64, 261, 291
Little Blue, 41, 61, 79, 105, 133, 164, 240, 291
Little Green, 61, 240, 242
Louisiana, 164, 240
Ward's, 164, 168, 240
Yellow-crowned Night, 242
Hesperornis, 297
Hesperiphona vespertina montana, 207
v. vespertina, 217, 275
Heteractitis incanus, 65
Himantopus mexicanus, 262
Hirundo erythrogastra, 208, 279
Histrionicus histrionicus pacificus, 202
Hummingbird, 51, 71, 76, 79
Allen's, 65
Broad-tailed, 205
Calliope, 205
Costa, 70
Ruby-throated, 46, 64, 243, 248, 272
Rufus, 70, 205
Hylocichla a. aliciae, 284
f. fuscescens, 252, 284
f. salicicolus, 210
guttata auduboni, 200, 210
g. pallasi, 252, 284
minima aliciae, 121
mustelina, 252
ustulata swainsoni, 129, 210, 252, 284
Ibis, White, 164
White-faced Glossy, 202, 240
Wood, 71, 202, 240, 300
Ichthyornis, 297
Icteria virens, 57, 251
Icterus bullocki, 127, 206
galbula, 274, 295
parisorum, 200
spurius, 274
Iridoprocne bicolor, 208, 248, 279
Ixobrychus exilis, 260
Jacksnipe, 183-190
Jay, Blue, 50, 55, 64, 127, 130, 134, 164, 214, 244, 248, 249, 273, 296
Black-headed, 206
Canada, 51, 218
Long-crested, 127

Pinon, 71, 127, 206
Rocky Mountain, 206
Santa Cruz Island, 65
Steller, 71
Whiskey, 71
Junco, 71, 134
aikeni, 28
Carolina, 249
Gray-headed, 128
hyemalis carolinensis, 249
h. connectens, 200, 208
h. hyemalis, 277, 289
h. mearnsi, 208
h. montanus, 208
Montana, 208
oreganus montanus, 120
phaeonotus caniceps, 128
Pink-sided, 208
Shufeldt's, 200, 208
Slate-colored, 47, 136, 244, 277, 289
White-winged, 28-31
Kestrel, 6
Killdeer, 44, 64, 71, 97, 102, 125, 164, 203, 240, 242, 265, 300
Kingbird, 64, 97, 126, 130, 205, 215, 229, 243, 248, 272
Arkansas, 126, 205, 243, 272
Cassin's, 127
Kingfisher, Belted, 64, 65, 102, 126, 164, 205, 243, 247, 271
Kinglet, Golden-crowned, 49, 136, 214, 252, 283
Ruby-crowned, 49, 129, 136, 210, 215, 283
Western Golden-crowned, 210
Kite, 71
Swallow-tailed, 267
Lanius borealis, 209, 279
ludovicianus anthonyi, 65
l. excubitorides, 209
l. migrans, 279
Lanivireo flavifrons, 250, 279
solitarius, 279
s. alticola, 250
Lark, Desert Horned, 127, 206
Hoyt's Horned, 206
Island Horned, 65
Prairie Horned, 64, 243, 273
Larus argentatus, 37
californicus, 201
delawarensis, 37, 123, 201
franklini, 37, 257
heermanni, 65
occidentalis, 65
philadelphia, 123, 201
Leptotila cassini, 231
Leucosticte astrata, 207
tephrocotis littoralis, 207
t. tephocotis, 207
Limnodromus griseus scolopaceus, 42
Limosa fedoa, 125, 199, 203
Limpkin, 164
Lobipes lobatus, 65, 203
Longspur, Alaska, 207
Chestnut-collared, 55
Lapland, 276, 285
Loon, 80, 201, 257
Pacific, 65
Red-throated, 199, 201
Lophodytes cucullatus, 201
Lophortyx californica vallicola, 65
Loxia curvirostra minor, 134, 207, 275
leucoptera, 134, 207
Magpie, 127, 207
Mallard, 38, 71, 123, 137, 193, 201, 215, 241, 258
Manakin, 230
Mareca americana, 39, 201
penelope, 59
Marila affinis, 39, 124, 202, 259
americana, 39, 124, 202, 259
marila, 202, 259
valisineria, 39, 124, 202, 259
Martin, Purple, 9, 48, 64, 278
Meadowlark, 36, 54, 64, 87, 97, 243, 274
Western, 87, 127, 206, 274
Melanerpes erythrocephalus, 126, 205, 214, 247, 271
Meleagris gallopavo silvestris, 267
Melospiza georgiana, 120, 249, 277
l. lincolni, 208, 215, 277
melodia graminea, 65
m. melodia, 249, 277
m. montana, 208
Merganser, 137
American, 38, 123, 201, 241
Hooded, 201, 241
Red-breasted, 38, 201, 215, 258
mergus americanus, 38, 123, 201
serrator, 38, 201, 215, 258
Migration, 17-28, 37-38, 45-50, 76, 81-95, 136, 213, 215, 290, 295
Mimus polyglottos leucopterus, 66, 129
p. polyglottos, 57
Mniotilta varia, 250, 279
Mockingbird, 50, 57-59, 77, 80, 164, 244
Western, 66, 129, 240
Molothrus a. ater, 127, 206, 249, 273
Molt, 78, 97-102
Myadestes townsendi, 210
Mycteria americana, 202, 300

Myiarchus c. cinerascens, 65
crinitus, 248, 272
Myiobius a. atricaudus, 230
Myiochanes r. richardsoni, 206
virens, 248, 273
Myiozetetes similis columbianus, 229
Nannus hiemalis, 252, 283
Nesting, 10, 28, 32, 62, 76, 103-107, 134, 137, 164-183, 215, 217, 228, 237, 295
Nettion carolinense, 39, 123, 201, 258
Nighthawk, 46, 55, 71, 243, 247, 272, 285
Pacific, 205
Western, 126
Nucifraga columbiana, 206
Numenius americanus, 43, 125, 203
hudsonicus, 246
Nutcracker, Clarke's, 206
Nuthatch, 134
Pygmy, 210
Red-breasted, 129, 210, 252, 283
Rocky Mountain, 210
White-breasted, 64, 144, 244, 252, 283
Nuttallornis borealis, 133, 206, 248, 272
Nyctea nyctea, 270
Nycticorax nycticorax naevius, 41, 124, 202, 215, 261
Oberholseria chlorura, 128, 208
Oceanodroma homochroa, 65
melania, 65
Oidemia deglandi, 65
deglandi dixoni, 202
Old-squaw, 137
Olor buccinator, 202
columbianus, 202, 260
Oporornis agilis, 281, 299
philadelphia, 251, 281
tolmiei, 209
Oreoscoptes montanus, 209
Oriole, 230
Baltimore, 47, 64, 143, 244, 274, 295
Bullock's, 127, 206
Orchard, 46, 54, 244, 274
Scott's, 200
Oropendula, 232
Osprey, 204, 269
Otocoris alpestris hoyti, 206
a. insularis, 65
a. leucolaema, 127, 206
a. praticola, 273
Otus asio asio, 247, 270
asio maxwelliae, 204
Ouzel, Water, 71
Oven-bird, 48, 56, 57, 215, 251, 281
Owl, 71, 77, 143, 249, 285, 293
American Hawk, 205
Barn, 243, 269
Barred, 55, 247, 270
Burrowing, 126, 166, 213, 243
Florida Barred, 33, 35
Great Horned, 71, 243, 247, 269, 270, 285
Hawk, 71
Long-eared, 126, 204, 269
Rocky Mountain Pygmy, 205
Rocky Mountain Screech, 204
Screech, 64, 192, 243, 247, 270
Short-eared, 204, 243, 270
Snowy, 270
Western Horned, 205
Oxyechus v. vociferus, 44, 125, 203, 265
Oyster-catcher, American, 71
Black, 65
Pandion haliaetus carolinensis, 204, 269
Parapava californicus, 70
Partridge, Canada Spruce, 218
Hungarian, 144
Passer domesticus, 128, 207, 276
Passerculus sandwichensis alaudinus, 128, 207
sandwichensis savanna, 276
Passerella i. iliaca, 277
i. schistacea, 208
Passerherbulus h. henslowi, 215
lecontei, 276
Passerina amoena, 128, 208
cyanea, 250, 278
Pedioecetes phasianellus columbianus, 204
Pelecanus californicus, 65
erythrorhynchos, 38, 201, 258
Pelican, 53
Brown, 218
California Brown, 65
White, 38, 201, 258, 300
Pelidna alpina sakhalina, 263
Penthestes atricapillus, 215, 252, 283
a. septentrionalis, 129, 210
gambeli, 210
Perisoreus canadensis capitalis, 206
Petrel, 53
Ashy, 65
Black, 65
Petrochelidon lunifrons hypopolea, 208
l. lunifrons, 129, 278
Pewee, Western Wood, 206
Wood, 46, 64, 248, 273

Phalacrocorax a. auritus, 140, 215, 257
auritus albociliatus, 65
penicillatus, 65
Phalaenoptilus n. nuttalli, 126
Phalarope, Northern, 65, 203
Wilson's, 42, 124, 203, 242, 262
Phasianus colchicus, 125
c. torquatus, 266
torquatus, 125
Pheasant, 125, 242
Ring-necked, 63, 71, 142, 144, 265, 266, 294
Philohela minor, 246
Phloeotomus pileatus abieticola, 54, 247
Phoebe, 46, 50, 64, 134, 164, 248, 272
Black, 65
Say's, 127, 206
Photography, 222-223
Pica pica hudsonia, 127, 206
Picoides americanus dorsalis, 205
arcticus, 205
Pigeon, 57, 135
Band-tailed, 125
Passenger, 53, 234, 267
Pinicola e. enucleator, 213
e. montana, 207
Pintail, 39, 123, 193, 202, 241, 259
Pipilo e. erythrophthalmus, 249, 277
maculatus megalonyx, 65
maculatus montanus, 208
Pipit, 49, 282
Sprague's, 199, 209
Pipromorpha oleaginea parca, 230
Piranga erythromelas, 250, 278
ludoviciana, 208
Pisobia bairdi, 43, 203
maculata, 203, 263
minutilla, 43, 65, 203, 263
Planesticus migratorius achrusterus, 121
m. migratorius, 121, 133, 214, 252, 284
m. propinquus, 121, 130, 210
Plectrophenax nivalis, 207, 276
Plegadis guarauna, 202
Plover, 5
Black-bellied, 43, 218, 265, 285
Golden, 44, 292
Piping, 218, 222
Semipalmated, 61, 218, 265
Snowy, 44
Upland, 222, 242, 264, 290, 293
Wilson's, 218
Pluvialis d. dominica, 44
Podilymbus podiceps, 37, 56, 123, 201, 256
Polioptila c. caerulea, 252, 284
Pooecetes gramineus confinis, 128, 207
g. gramineus, 249, 276
Poor-will, 126
Porzana carolina, 203, 262
Progne s. subis, 278
Protonotaria citrea, 63, 280, 292
Psaltriparus m. minimus, 66
Ptarmigan, 5
Willow, 71
Puffbird, 230
Puffin, Horned, 71
Puffinus creatopus, 65
griseus, 65
opisthomelas, 65
Quail, 134, 242
Mexican, 242
Valley, 65
Querquedula cyanoptera, 39, 201
discors, 39, 123, 201, 215, 258
Quiscalus quiscula aeneus, 128, 249, 275
q. quiscula, 55
Rail, Black, 42
King, 61, 64, 192, 215, 222, 262
Little Black, 62
Virginia, 42, 64, 192, 262
Yellow, 262
Rallus elegans, 215, 262
virginianus, 42, 262
Ramphastos brevicarinatus, 232
Raven, 65
American, 206
Northern, 248
Recurvirostra americana, 42, 125, 203
Red-head, 39, 137, 202, 241, 256, 259
Redpoll, 76, 207, 275
Redstart, 49, 57, 129, 251, 282
Regulus c. calendula, 129, 210, 283
satrapa olivaceus, 210
s. satrapa, 214, 252, 283
Richmondena cardinalis, 293
Riparia riparia, 129, 209, 250, 279
Road-runner, 143
Robin, 49, 50, 55, 64, 71, 80, 133, 215, 214, 215, 222, 223, 244, 252, 284 291
Southern, 121
Western, 70, 130, 210
Rubicola minor, 263
Salpinctes o. obsoletus, 66, 209
Sanderling, 218

Sandpiper, Baird's, 43, 203
Bartramian, 43
Least, 43, 61, 65, 203, 263
Pectoral, 71, 203, 263, 293
Red-backed, 218, 263
Semipalmated, 43, 264
Solitary, 242, 246, 264
Spotted, 64, 125, 203, 242, 246, 264
Western Solitary, 203
Sapsucker, Red-naped, 205
Williamson's, 205
Yellow-bellied, 46, 247, 271
Saynornis nigricans, 65
phoebe, 134, 248, 272
sayus, 127, 206
Scoter, American, 202
Pacific White-winged, 202
White-winged, 65
Seiurus aurocapillus, 56, 215, 251, 281
noveboracensis notabilis, 281
n. noveboracensis, 56, 251
motacilla, 57, 251, 281
Selasphorus alleni, 65
platycercus, 205
rufus, 205
Setophaga ruticilla, 57, 129, 251, 282
Shearwater, Black-vented, 65
Pink-footed, 65
Sooty, 65
Shoveller, 39, 123, 201, 215, 241, 256, 259
Shrike, 164
Island, 65
Loggerhead, 54
Migrant, 279
Northern, 7, 8, 209, 244, 279
White-rumped, 209, 244
Sialia s. sialis, 214, 252, 285, 290
currucoides, 130, 210
mexicana occidentalis, 210
Siskin, Pine, 79, 128, 134, 207, 275
Sitta canadensis, 129, 210, 252, 283
carolinensis, 252, 283
c. nelsoni, 210
pygmacea, 210
Skimmer, Black, 218
Snipe, Wilson's, 42, 46, 63, 64, 125, 164, 183-190, 203, 215, 242, 263
Solitaire, Townsend's, 210
Sora, 192, 203, 219, 262
Sparrow, Black-throated, 244
Brewer's, 87, 208
Chipping, 47, 64, 215, 249, 277
Clay-colored, 87, 128
Eastern Grasshopper, 120
English, 7, 55, 63, 135, 136, 207, 244, 276, 278, 299
Field, 47, 50, 64, 249, 277
Fox, 244, 277
Gambel's, 65, 79, 81-95, 208
Golden-crowned, 79, 81, 95
Grasshopper, 50, 64, 276
Harris's, 47, 54, 79, 81-95, 244, 276
Henslow's, 64, 215
House, 128, 130
Lark, 47, 135, 244, 276
Leconte's, 276
Lincoln's, 47, 136, 208, 215, 277
Mountain Song, 208
Nelson's, 299
Nuttall's, 82
Santa Barbara Song, 65
Savannah, 50, 64, 71, 276
Slate-colored Fox, 208
Song, 47, 64, 71, 80, 97, 134, 136, 219-220, 249, 277
Swamp, 50, 64, 120, 136, 249, 277
Tree, 47, 71, 134, 136, 277
Vesper, 47, 64, 97, 249, 276
Western Chipping, 128, 208
Western Grasshopper, 128, 199, 207
Western Lark, 65, 128, 207, 239
Western Savannah, 128, 199, 207
Western Tree, 208
Western Vesper, 128, 207
White-crowned, 47, 79, 81-95, 128, 136, 207, 277
White-throated, 47, 79, 81-95, 136, 208, 249, 277
Spatula clypeata, 39, 123, 201, 215, 259
Speotyto cunicularia hypogaea, 126, 213
Sphyrapicus thyroideus, 205
varius nuchalis, 205
v. varius, 247, 271
Spinus p. pinus, 128, 207, 275
Spiza americana, 278
Spizella breweri, 208
m. monticola, 277
m. ochracea, 208
pallida, 128
passerina arizonae, 128, 208
p. passerina, 249, 277
pusilla, 249, 277
Spoonbill, 71
Roseate, 240
Squatarola squatarola cynasurae, 43, 265
Starling, 7, 66-67, 71, 77, opp. 80, 135, 141, 213, 286, 289
Steganopus tricolor, 42, 124, 203, 262
Stelgidopteryx serripennis, 209, 279
Stellula calliope, 205
Sterna antillarum, 37, 102, 103
caspia imperator, 201
forsteri, 37, 123, 257
hirundo, 108

Stilt, Black-necked, 240, 262
Strix v. varia, 247, 270
Sturnella m. magna, 274
neglecta, 127, 206, 274
Sturnus vulgaris, 66-67, 213, 289
Surnia ulula caparoch, 205
Swallow, 5, 6
Bank, 64, 97, 129, 130, 209, 250, 279
Barn, 64, 142, 208, 244, 279
Canadian Cliff, 208
Cliff, 77, 129, 278
Northern Violet-green, 208
Rough-winged, 48, 64, 209, 279
Tree, 164, 208, 250, 279
Violet-green, 71
Swan, Trumpeter, 200, 202
Whistling, 202, 260
Swift, Chimney, 46, 64, 79, 110-118, 243, 247, 272
White-throated, 205
Tachycineta thalassina lepida, 208
Tanager, 230
Scarlet, 48, 250, 278
Summer, 48
Western, 208
Tattler, Wandering, 65
Teal, 76
Blue-winged, 39, 61, 123, 137, 201, 215, 241, 256, 258, 263
Cinnamon, 39, 201
Green-winged, 39, 123, 201, 241, 258, 263
Telmatodytes palustris iliacus, 283
p. plesius, 210
Tern, 5, 79
Black, 37, 105, 123, 201, 218, 236, 241, 257
Caspian, 199, 201, 218, 236, 300
Common, 108-109, 218, 236
Forster's, 37, 123, 257
Least, 37, 78, 102-103, 103-107, 218
Roseate, 71
Thrasher, Brown, 7, 49, 64, 77, 129, 137, 164, 221, 244, 252, 282
Sage, 209
Thrush, Audubon's Hermit, 200, 210
Gray-cheeked, 49, 121, 284
Hermit, 49, 136, 252, 284
Olive-backed, 49, 129, 136, 210, 252, 284
Willow, 210
Wood, 49, 50, 64, 244, 252, 284
Thryomanes bewicki, 10, 252
Thryothorus l. ludovicianus, 10, 63, 252, 282
Titmouse, Tufted, 71, 244, 252, 283
Totanus flavipes, 43, 125, 203, 264
melanoleucus, 43, 203, 264
Toucans, 71, 230, 232
Towhee, 47, 50, 71, 97, 164, 249, 277
Green-tailed, 128, 208
San Diego, 65
Spurred, 208
Toxostoma rufum, 129, 137, 252, 282
Tringa solitaria cinnamomea, 203
s. solitaria, 246, 264
Troglodytes aedon, 10, 252
a. parkmani, 62, 129, 210, 282
Turkey, Florida, 71
Wild, 144, 233-235, 267
Turnstone, 218
Ruddy, 203
Tympanuchus a. americanus, 266
Tyrannus melancholicus chloronotus, 229
tyrannus, 126, 205, 215, 248, 272
verticalis, 126, 206, 272
vociferans, 127
Tyto alba pratincola, 269
Veery, 251, 252, 284
Vermivora c. celata, 209, 280
c. sordida, 66
chrysoptera, 56, 250, 280
peregrina, 121, 215, 280
pinus, 56, 250, 280
ruficapilla gutturalis, 209
r. ruficapilla, 250, 280
Vireo, Bell's, 48
Blue-headed, 279
Mountain Solitary, 250
Red-eyed, 48, 129, 244, 250, 279
Warbling, 46, 64, 279
Western Warbling, 209
White-eyed, 48, 50
Yellow-throated, 48, 250, 279
Vireosylva g. gilva, 279
g. swainsoni, 209
olivacea, 129, 250, 279
Vulture, Turkey, 125, 246
Warbler, Audubon's, 129, 209
Bay-Breasted, 281
Black and White, 48, 250, 279
Blackburnian, 251, 281
Black-throated Blue, 136, 280
Black-throated Green, 251, 281
Blackpoll, 136, 281
Blue-winged, 48, 56, 250, 280
Cairn's, 250
Calaveras, 209
Canada, 215, 251, 282
Cape May, 280
Cerulean, 56, 280
Chestnut-sided, 56, 251, 281

Connecticut, 281, 299
Dusky, 65
Golden-winged, 56, 250, 280
Hooded, 56, 251
Hoover's, 209
Kentucky, 48
Macgillivray's, 209
Magnolia, 48, 119, 120, 251, 280
Mourning, 251, 281
Myrtle, 48, 60, 164, 280
Nashville, 48, 250, 280
Northern Parula, 280
Orange-crowned, 209, 280
Palm, 136, 164, 281
Parula, 48
Pileolated, 209
Pine, 281
Prairie, 48
Prothonotary, 48, 63, 280, 292
Sedge, 6
Sycamore, 48, 215
Tennessee, 48, 121, 136, 215, 218, 280
Townsend's, 209
Western Yellow, 209
Wilson's, 282
Worm-eating, 250
Yellow, 48, 56, 64, 129, 244, 250, 280

Water Thrush, 56
Grinnell's, 281
Louisiana, 48, 50, 56, 57, 251, 281
Northern, 251

Water Turkey, 164, 215

Waxwing, Bohemian, 209, 279
Cedar, 64, 79, 209, 244, 250, 279

Whip-poor-will, 46, 71, 219, 247, 271

Willet, 242
Western, 43, 125, 203, 264

Wilsonia canadensis, 215, 251, 282
citrina, 57, 251
pusilla pileolata, 209
pusilla pusilla, 282

Woodcock, 46, 64, 263
American, 246

Woodhewer, 230

Woodpecker, 7, 297
Alpine Three-toed, 205
Arctic Three-toed, 205, 218
Batchelder's, 205
Downy, 15, 64, 134, 144, 243, 247, 271
Green, 7
Hairy, 64, 134, 243, 247, 271
Ivory-billed, 182
Lewis's, 126, 205
Northern Pileated, 54, 55, 247
Pileated, 70, 164
Red-bellied, 164, 247, 271
Red-headed, 64, 126, 205, 214, 243, 247, 271, 297
Rocky Mountain Hairy, 205

Wren, 10
Bewick's, 10, 13-17, 252, 282
Carolina, 10, 11-17, 63, 244, 252, 282
House, 4, 10, 13-17, 61, 64, 78, 244, 252, 282
Long-billed Marsh, 64
Prairie Marsh, 283
Rock, 66, 209
Short-billed Marsh, 61, 64, 283
Western House, 62, 129, 209, 282
Western Marsh, 209
Winter, 136, 252, 283

Xanthocephalus xanthocephalus, 127, 206, 274

Yellow-legs, 125, 242, 263, 264, 293
Greater, 43, 203, 264
Lesser, 43, 61, 203

Yellow-throat, 71
Maryland, 48, 57, 64, 244, 251, 281
Northern, 136
Western, 209

Zarhynchus wagleri, 232

Zenaidura macroura, 17
m. carolinensis, 54, 214, 267
m. marginella, 55, 65, 125, 204

Zonotrichia albicollis, 81-95, 208, 249, 277
coronata, 81-95
leucophrys gambeli, 65, 81-95, 95-97, 128, 208
l. leucophrys, 81-95, 95-97, 128, 207, 277
l. nuttalli, 81
l. pugetensis, 82
querula, 54, 81-95, 276